

U.S.S.N. 10/723,782

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03-0459 (BOE 0456 PUS)

**REMARKS**

In the Office Action dated January 27, 2005, claims 1-40 are pending. The Office Action states that claims 1-22 and claims 23-40 are directed to separate and distinct inventions and for that reason an election is required and a restriction for examination purposes is proper.

The Office Action groups claims 1-40 into a Group I having claims 1-22 and into a Group II having claims 23-40. The Office Action states that Group I is drawn to determining roll gyro bias residual, classified in class 244, subclass 171, and that Group II is drawn to gain scheduling gyro calibration and attitude determination, classified in class 244, subclass 171. Applicants elect Group I with traverse.

Applicants agree that Inventions I and II are separately usable. However, the inventions are closely related and as agreed by the Office Action are usable in combination. For example, both claims 1 and 23 are directed to method of calibrating a gyro of a spacecraft. Both inventions may be used to calibrate a gyro and to determine attitude. Also, both inventions utilize a yaw attitude residual or error signal, see for example the recited limitations of claims 1 and 29. Also, both inventions minimize the yaw transient period and avoid corruption of roll gyro bias estimation.

Furthermore, note that both Group I and Group II are classified in the identical class and subclass, specifically class 244 and subclass 171. Thus, Applicants submit that since the inventions are closely relate, recite similar limitations, may be used separately or in combination for a similar purpose, and are identically classified it would not be further burdensome to process claims 23-40 in addition to that of claims 1-22.

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Should the Examiner have any questions or comments, he is respectfully requested to call the undersigned attorney.

Respectfully submitted,

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